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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/863,046	05/22/2001	John J. Light	10559-455001	8351	
7590 05/20/2004			EXAMINER		
Sharmini N. Green c/o BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP			NARAYANASWAMY, SINDYA		
12400 Wilshire		& ZARMAN LLP	ART UNIT PAPER NUMBER		
7th floor			2174		
Los Angeles, C	CA 90025		DATE MAILED: 05/20/2004	12	

Please find below and/or attached an Office communication concerning this application or proceeding.

de

•	Application No.	Applicant(s)	X
	09/863,046	LIGHT ET AL.	
Office Action Summary	Examiner	Art Unit	
	Sindya Narayanaswamy	2174	
The MAILING DATE of this commun	nication appears on the cover sheet with	th the correspondence address -	·-
A SHORTENED STATUTORY PERIOD F THE MAILING DATE OF THIS COMMUN  - Extensions of time may be available under the provisions after SIX (6) MONTHS from the mailing date of this comm  - If the period for reply specified above is less than thirty (3  - If NO period for reply is specified above, the maximum si  - Failure to reply within the set or extended period for reply Any reply received by the Office later than three months earned patent term adjustment. See 37 CFR 1.704(b).	ICATION. s of 37 CFR 1.136(a). In no event, however, may a remunication. 30) days, a reply within the statutory minimum of thirty tatutory period will apply and will expire SIX (6) MON y will, by statute, cause the application to become AB.	eply be timely filed  (30) days will be considered timely.  THS from the mailing date of this communication  ANDONED (35 U.S.C. § 133).	ation.
Status			
1) Responsive to communication(s) file	ed on 16 April 2004		
	2b)⊠ This action is non-final.		
<u>*</u>	for allowance except for formal matte	ers, prosecution as to the merits	s is
,	ice under <i>Ex parte Quayle</i> , 1935 C.D		
Disposition of Claims			
4) Claim(s) 1-24 is/are pending in the			
4a) Of the above claim(s) is/a	are withdrawn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-24</u> is/are rejected.			
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restri	ction and/or election requirement		
	ction and/or election requirement.		
Application Papers			
	2004 is/are: a)⊠ accepted or b)□ oction to the drawing(s) be held in abeyang the correction is required if the drawing(	ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.12	• •
Priority under 35 U.S.C. § 119			
<ul><li>2. Certified copies of the priority</li><li>3. Copies of the certified copies</li></ul>	documents have been received. documents have been received in A of the priority documents have been onal Bureau (PCT Rule 17.2(a)).	pplication No received in this National Stage	
Attachment(s)	_		
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (I</li> </ol>		ummary (PTO-413) )/Mail Date	
<ol> <li>Notice of Draftsperson's Patent Drawing Review (I</li> <li>Information Disclosure Statement(s) (PTO-1449 or Paper No(s)/Mail Date</li> </ol>		formal Patent Application (PTO-152)	

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### **DETAILED ACTION**

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1. Claims 1-24 are presented for examination.

2. The drawings were received on 2/17/04. These drawings are accepted by the examiner.

## Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made. Claims 3-5, 8, 11-13, 16, 19-21 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Matsuda, US-6,346,956.
- 2. Claims 1- 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Matsuda, US-6,346,956 in view of Suzuki et al (hereinafter Suzuki), US-5,736,982.
- 3. As per claim 1, Matsuda teaches a method of selecting a target object in a virtual threedimensional space, comprising:

identifying objects, including the target object, in the virtual three-dimensional space (Fig. 27; col. 4, lines 22-23).

Matsuda does not specifically teach the method of determining distances between the objects and a point in the virtual three-dimensional space or the prioritizing of the objects

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based on distances and identities of the objects and then selecting the target object from among the objects based on priority.

However, Suzuki teaches the method of determining distances between the objects and a point in the virtual three-dimensional space or the prioritizing of the objects based on distances and identities of the objects and then selecting the target object from among the objects based on priority (calculating distance between avatars) (grading based on five levels) (select means) (col. 10, lines 15-40, col. 15, lines 32-48, col. 29, lines 6-10). It would have been obvious to combine the teaching of Matsuda with Suzuki's methods of determining distances and assigning priorities in order to create a method in which distance information between objects is maintained for tracking purposes and selection purposes based on selectivity/priority.

- 4. As per claim 2, Matsuda teaches the method wherein the objects comprise one or more of a link object (anchor) and non-link object (col. 5, lines 41-52).
- 5. As per claim 6, Matsuda teaches the method wherein identifying comprises distinguishing between a link object and a non-link object (anchor objects vs. non-anchor objects) (Fig. 35; col. 37, lines 57-67).

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6. As per claim 7, Matsuda teaches the method further comprising: receiving coordinates based on a user input; and locating the objects in the virtual three-dimensional space based on the coordinates (*detailed coordinate value information*) (Fig. 32; col. 33, lines 39-56).

- 7. As per claims 9, 10, 14, 15, 17, 18, 22 and 23, they are the apparatus and article claims of claims 1, 2, 6 and 7 and rejected on the same basis.
- As per claims 3 and 4, Matsuda does not teach the method as in claims 1 and 2 wherein prioritizing comprises assigning a higher priority to the non-link objects than to the link objects if the distances meet a predetermined criterion or assigning higher priority to the link object if the link object is closer to the point than a non-link object by a predetermined distance. However, official notice is taken that prioritizing objects is well known in the art, therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to give higher priority to the non-link objects because the link objects do not represent actual data, as non-link objects do and give higher priority to link objects when they are easier to access, based on the predetermined distance factor.
- 9. As per claim 5, Matsuda does not teach the method as in claim 1, wherein the predetermined distance comprises 0x1000000. However, official notice is taken that fixing predetermined distances of objects is well known in the art, therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to fix the distance between linked and non-linked objects in order to for objects to be prioritized and selected.

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10. As per claim 8, Matsuda does not specifically teach the method as in claim 1, wherein determining the distances comprises obtaining differences between coordinates in the virtual three-dimensional space for the objects and coordinates in the virtual three-dimensional space for the point. However, official notice is taken that calculating distance based on XYZ axis coordinate points is well known in the art, therefore it would have been obvious to one ordinary skill in the art at the time of the invention to use coordinate calculation as the method to

11. As per claims 11-13, 16, 19-21 and 24, they are the apparatus and article claims of claims 1-8 and are rejected on the same basis.

determine the distance between the objects in the three-dimensional space.

### Response to Argument

12. Applicant's arguments with respect to claim 1, 9 and 17 have been considered but are moot in view of the new ground(s) of rejection.

#### Conclusion

- 13. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:
  - a) US 5732232 position/coordinate maintenance
  - b) US 6628307 interface indicating location of items

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14. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sindya Narayanaswamy whose telephone number is (703) 305-8473. The examiner can normally be reached on 8 am to 5 pm, first Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kristine Kincaid can be reached on (703) 308-0640. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-9000.

Sindya Narayanaswamy May 11, 2004 Bustine Lineard
KRISTINE KINCAID
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100